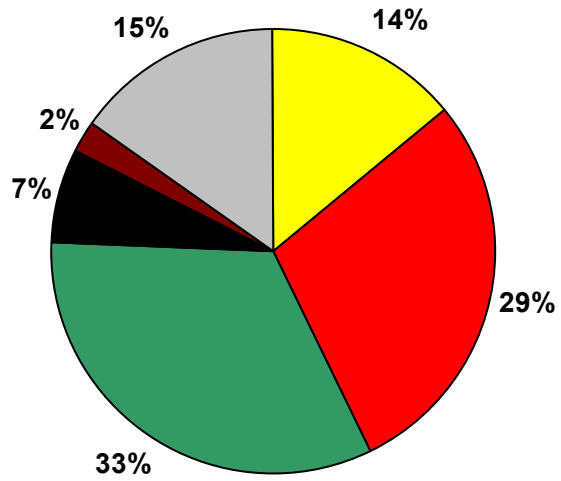


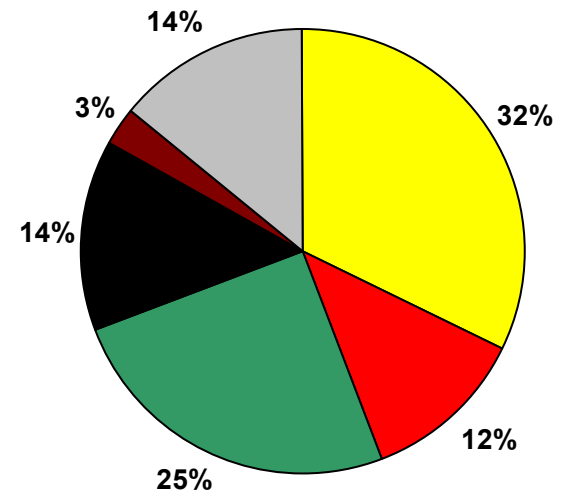
**MONITORING DATA**

**Dome Lands Wilderness Area, CA  
2002 Reconstructed Extinction  
DOME1 Monitoring Data (every third day)**

**20% Worst Visibility Days**  
Aerosol Extinction\* = 86 Mm<sup>-1</sup> (56 to 180 Mm<sup>-1</sup>)

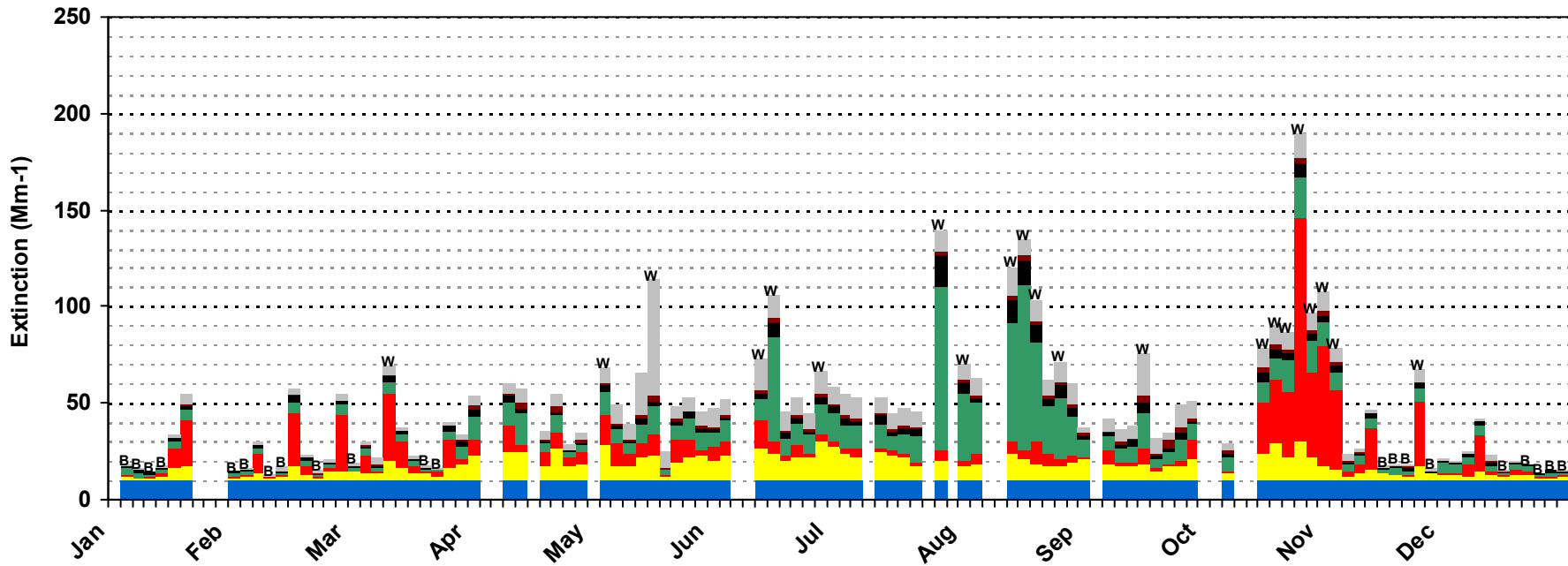


**20% Best Visibility Days**  
Aerosol Extinction\* = 6 Mm<sup>-1</sup> (3 to 9 Mm<sup>-1</sup>)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh

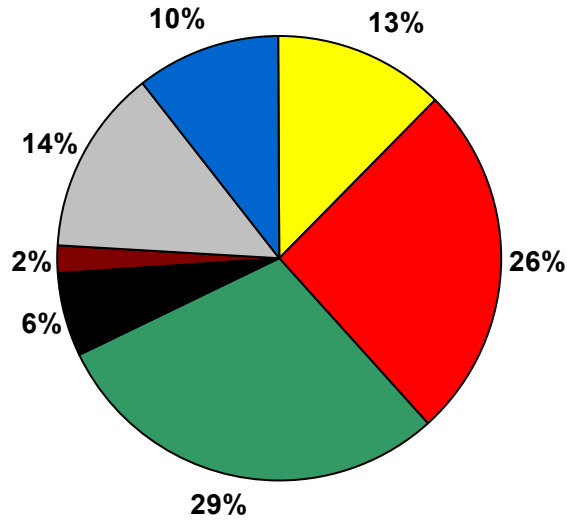
\*Excludes Rayleigh Extinction



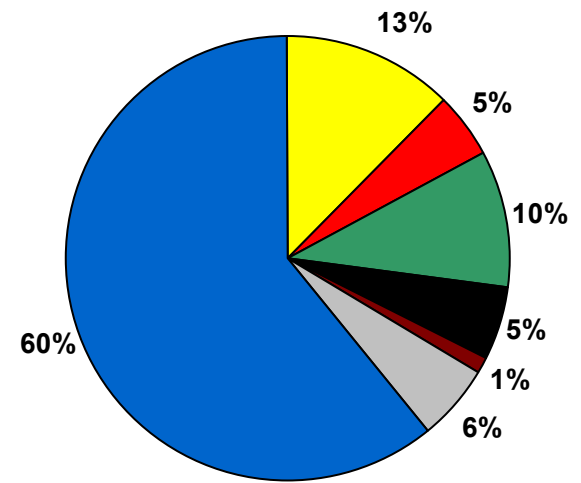
**MONITORING DATA**

**Dome Lands Wilderness Area, CA  
2002 Reconstructed Extinction  
DOME1 Monitoring Data (every third day)**

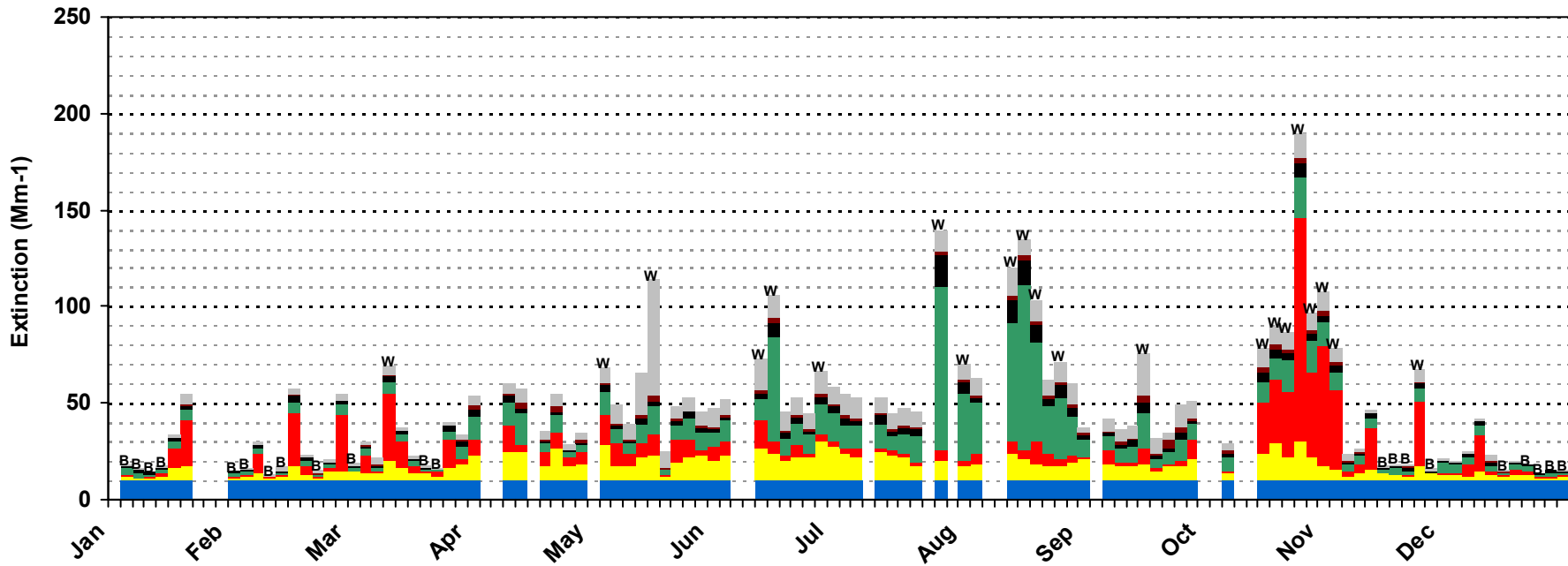
**20% Worst Visibility Days**  
Total Extinction = 96 Mm-1 (66 to 190 Mm-1)



**20% Best Visibility Days**  
Total Extinction = 16 Mm-1 (13 to 19 Mm-1)



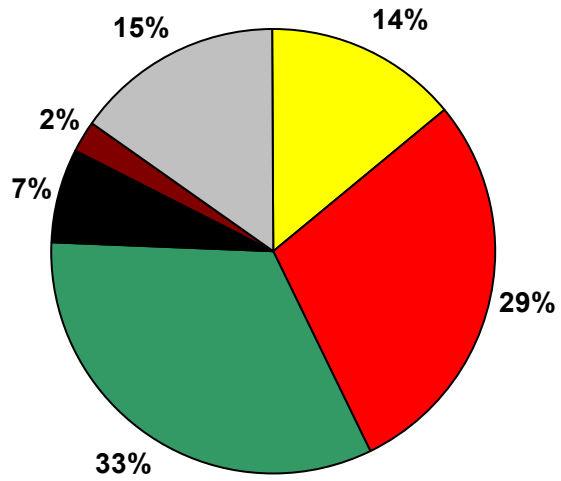
- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh



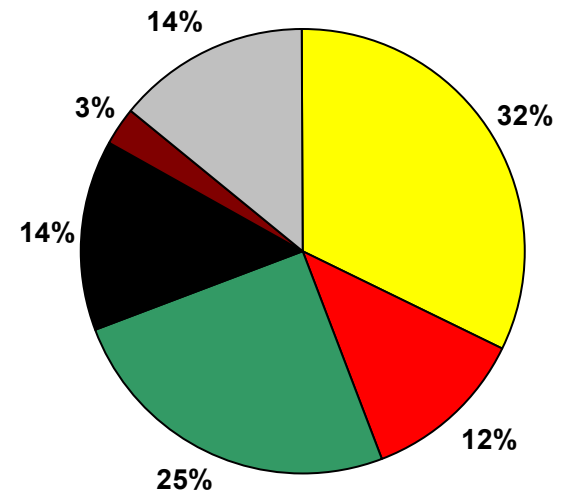
**MONITORING DATA**

**Dome Lands Wilderness Area, CA  
2002 Reconstructed Extinction  
DOME1 Monitoring Data (every third day)**

**20% Worst Visibility Days**  
Aerosol Extinction\* = 86 Mm<sup>-1</sup> (56 to 180 Mm<sup>-1</sup>)

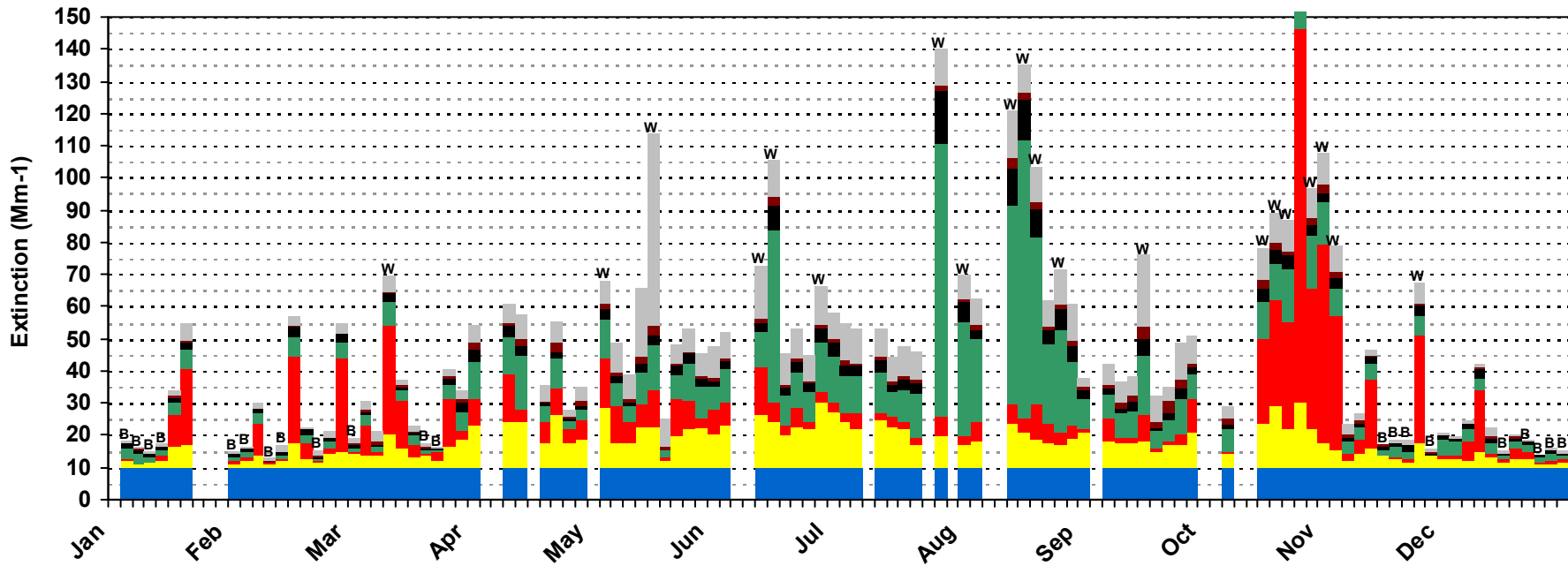


**20% Best Visibility Days**  
Aerosol Extinction\* = 6 Mm<sup>-1</sup> (3 to 9 Mm<sup>-1</sup>)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh

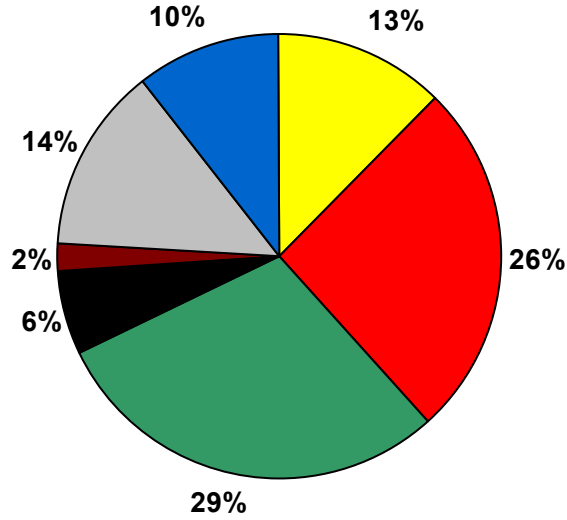
\*Excludes Rayleigh Extinction



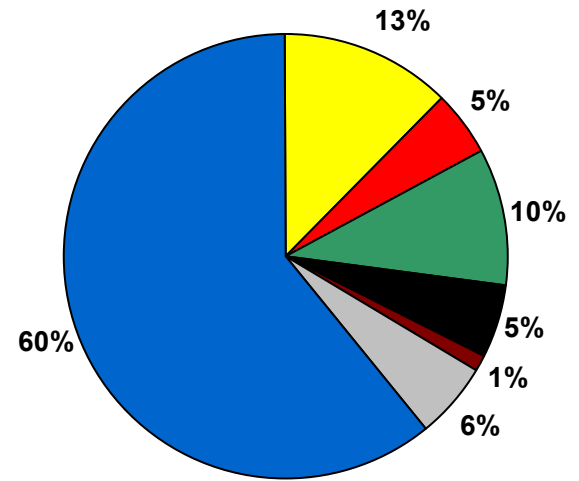
**MONITORING DATA**

**Dome Lands Wilderness Area, CA  
2002 Reconstructed Extinction  
DOME1 Monitoring Data (every third day)**

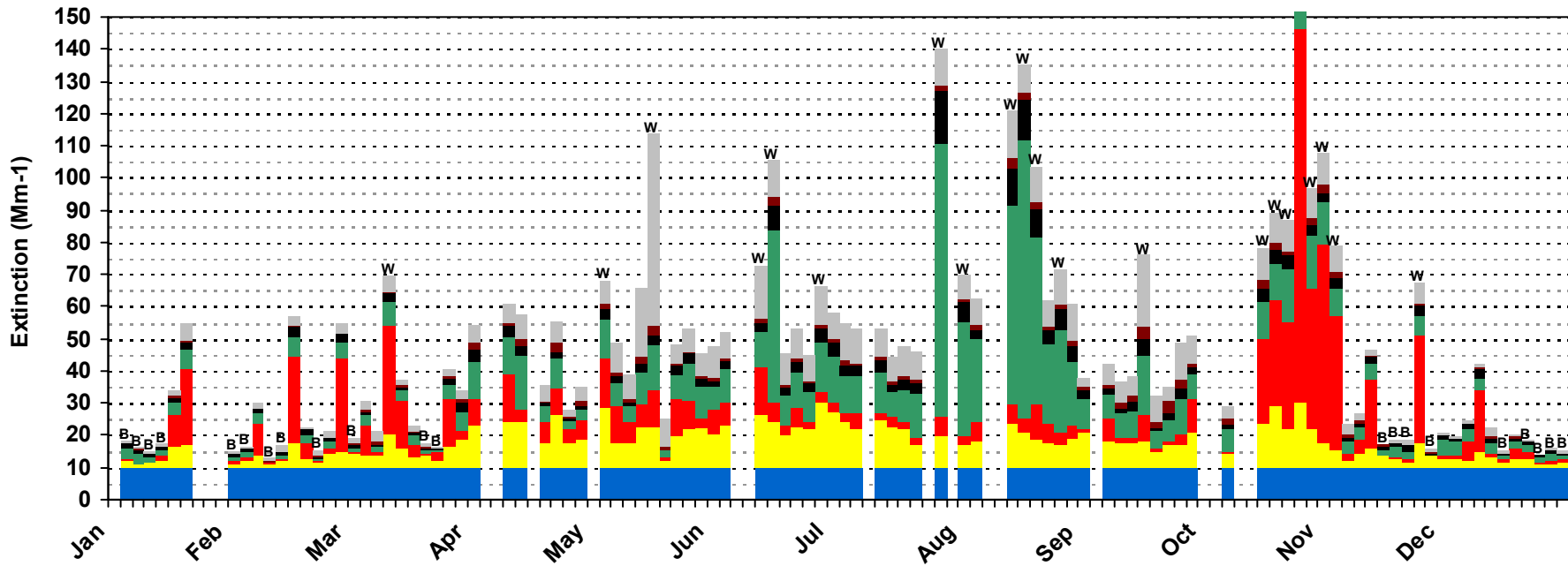
**20% Worst Visibility Days**  
Total Extinction = 96 Mm-1 (66 to 190 Mm-1)



**20% Best Visibility Days**  
Total Extinction = 16 Mm-1 (13 to 19 Mm-1)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh



## MONITORING DATA

### Dome Lands Wilderness Area, CA 2002 Reconstructed Extinction Values DOME1 Monitoring Data (every third day)

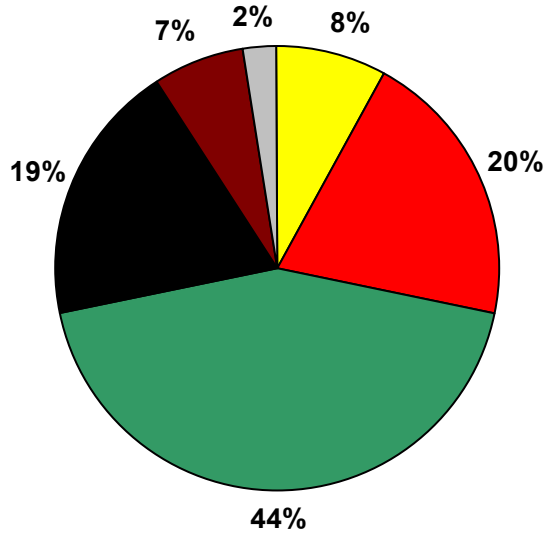
<b>20% Worst Visibility Days</b>			
	<b>Average (Mm-1)</b>	<b>Minimum (Mm-1)</b>	<b>Maximum (Mm-1)</b>
<b>Total Extinction:</b>	95.6 (22.6 dv)	66.3 (18.9 dv)	189.9 (29.4 dv)
<b>Aerosol Extinction*:</b>	85.6	56.3	179.9
	<b>Average (Mm-1)</b>	<b>% of Tot. Extinction</b>	<b>% of Aer. Extinction</b>
<b>Ammonium Sulfate:</b>	12.0	13%	14%
<b>Ammonium Nitrate:</b>	24.6	26%	29%
<b>Organic Material:</b>	28.0	29%	33%
<b>Elemental Carbon:</b>	5.9	6%	7%
<b>Soil:</b>	2.0	2%	2%
<b>Coarse Material:</b>	12.9	13%	15%
<b>Rayleigh:</b>	10.0	10%	N/A
<b>20% Best Visibility Days</b>			
	<b>Average (Mm-1)</b>	<b>Minimum (Mm-1)</b>	<b>Maximum (Mm-1)</b>
<b>Total Extinction:</b>	16.5 (5.0 dv)	13.0 (2.6 dv)	19.4 (6.6 dv)
<b>Aerosol Extinction*:</b>	6.5	3.0	9.4
	<b>Average (Mm-1)</b>	<b>% of Tot. Extinction</b>	<b>% of Aer. Extinction</b>
<b>Ammonium Sulfate:</b>	2.1	13%	32%
<b>Ammonium Nitrate:</b>	0.8	5%	12%
<b>Organic Material:</b>	1.6	10%	25%
<b>Elemental Carbon:</b>	0.9	5%	14%
<b>Soil:</b>	0.2	1%	3%
<b>Coarse Material:</b>	0.9	5%	14%
<b>Rayleigh:</b>	10.0	61%	N/A

\*Excludes Rayleigh Extinction

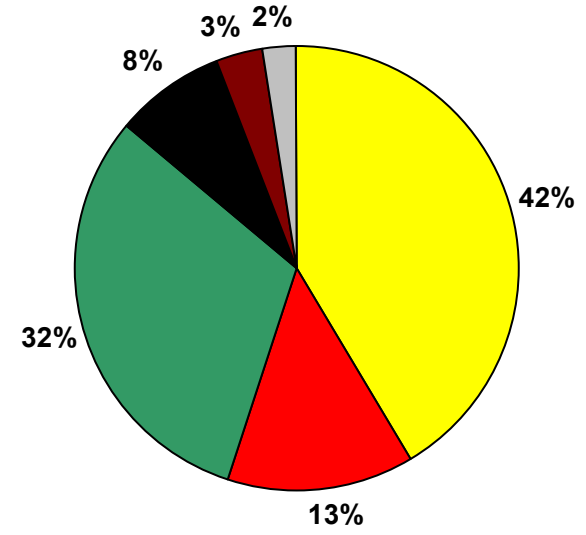
**MODEL RESULTS**

**Dome Lands Wilderness Area, CA  
2002 Reconstructed Extinction  
CMAQ Model Results (every day)**

**20% Worst Visibility Days**  
Aerosol Extinction\* = 75 Mm-1 (33 to 469 Mm-1)

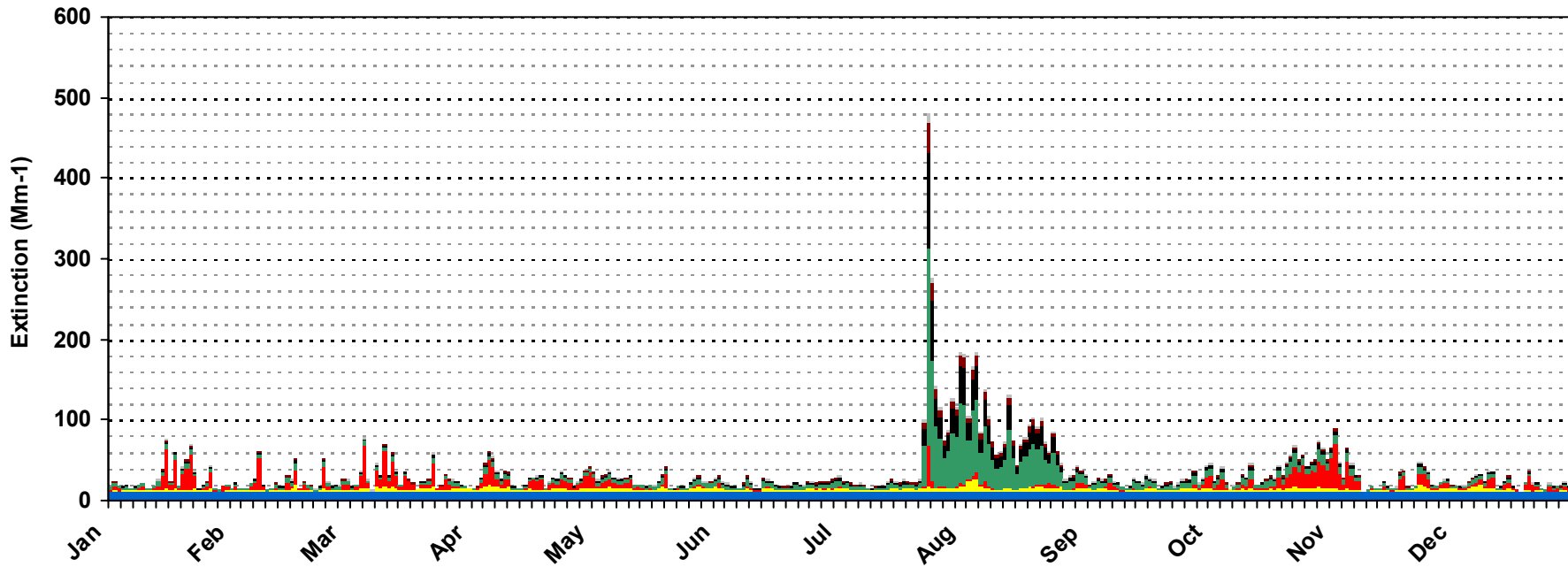


**20% Best Visibility Days**  
Aerosol Extinction\* = 6 Mm-1 (0 to 8 Mm-1)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh

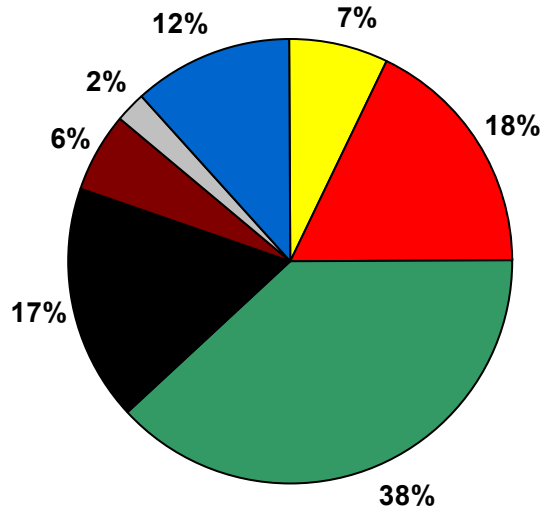
\*Excludes Rayleigh Extinction



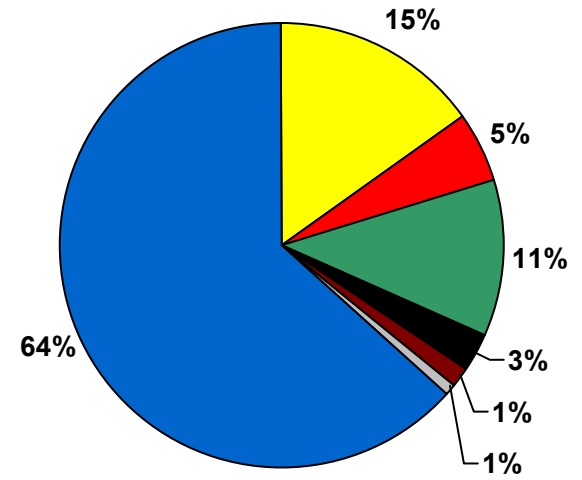
**MODEL RESULTS**

**Dome Lands Wilderness Area, CA  
2002 Reconstructed Extinction  
CMAQ Model Results (every day)**

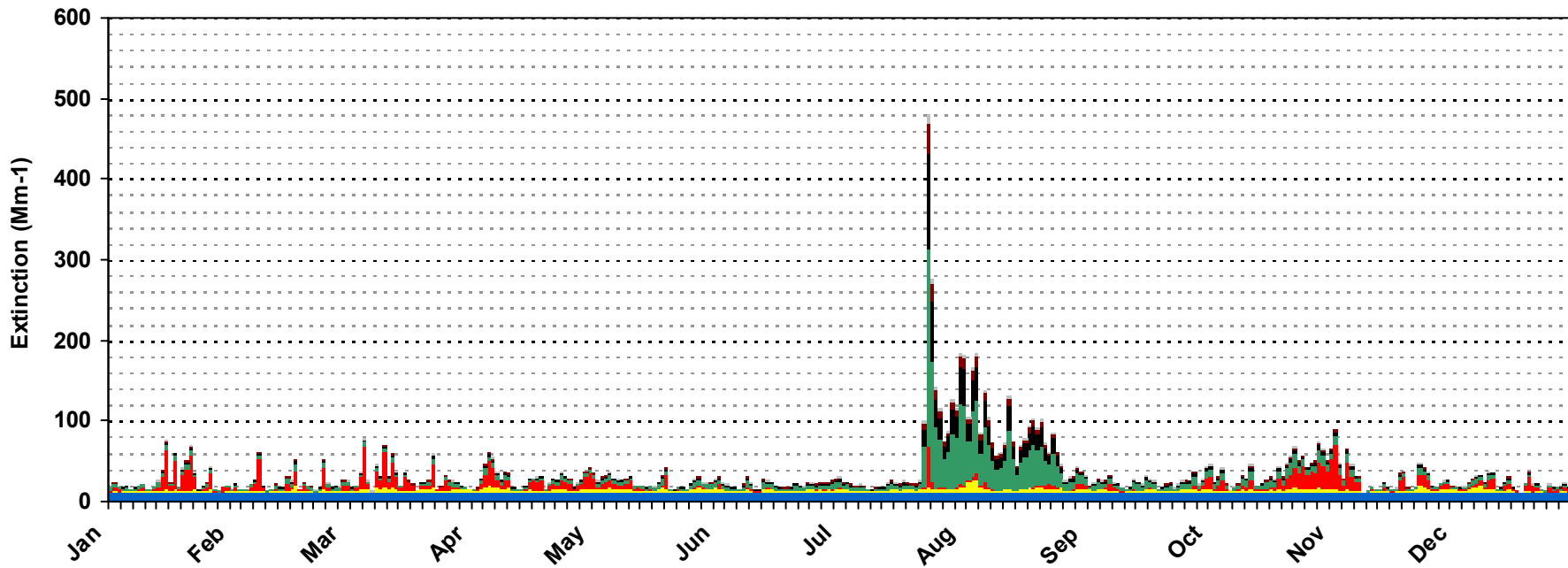
**20% Worst Visibility Days**  
Total Extinction = 85 Mm-1 (43 to 479 Mm-1)



**20% Best Visibility Days**  
Total Extinction = 16 Mm-1 (10 to 18 Mm-1)



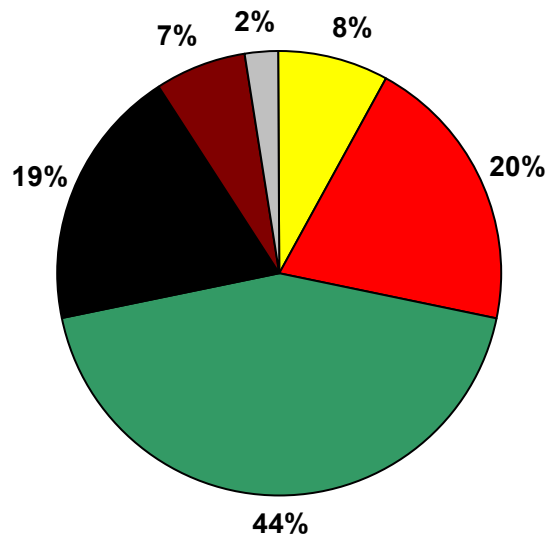
- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh



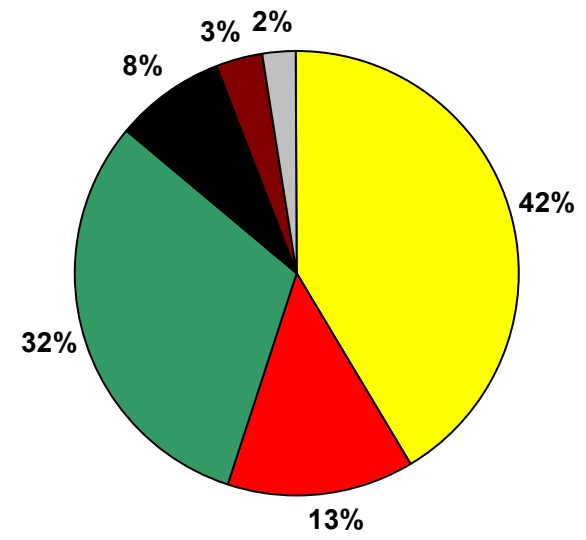
# MODEL RESULTS

## Dome Lands Wilderness Area, CA 2002 Reconstructed Extinction CMAQ Model Results (every day)

**20% Worst Visibility Days**  
Aerosol Extinction\* = 75 Mm<sup>-1</sup> (33 to 469 Mm<sup>-1</sup>)

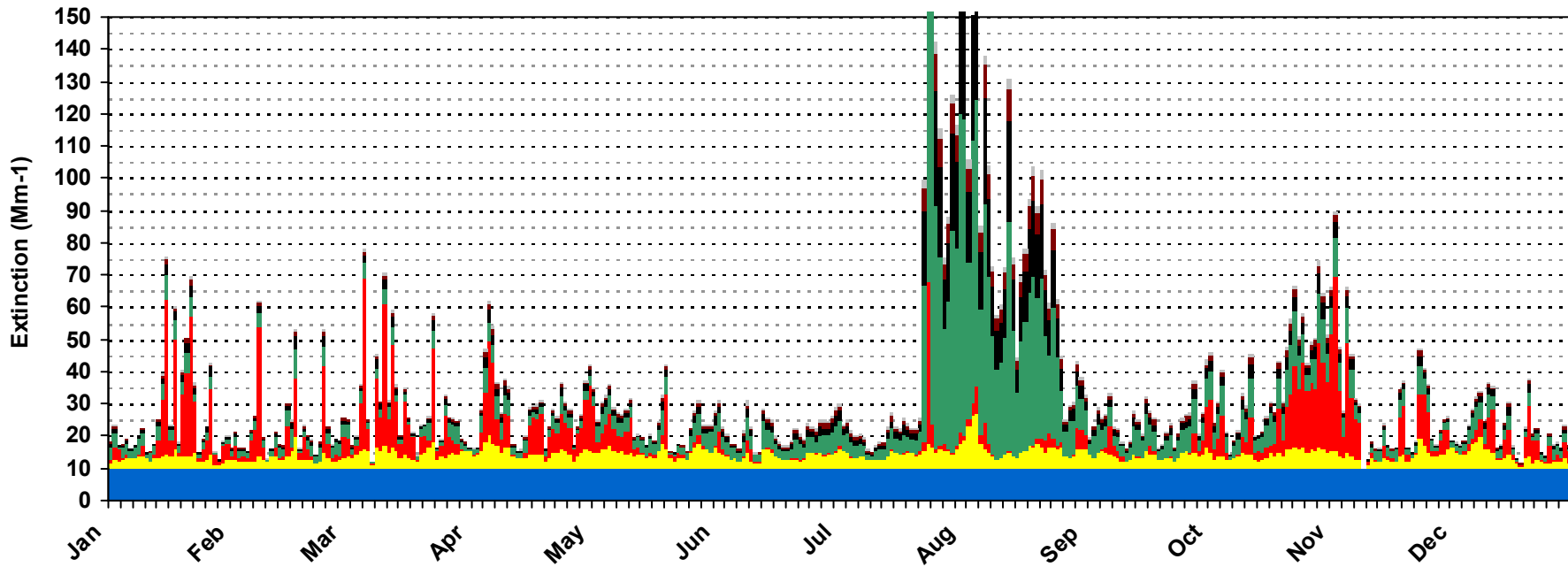


**20% Best Visibility Days**  
Aerosol Extinction\* = 6 Mm<sup>-1</sup> (0 to 8 Mm<sup>-1</sup>)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh

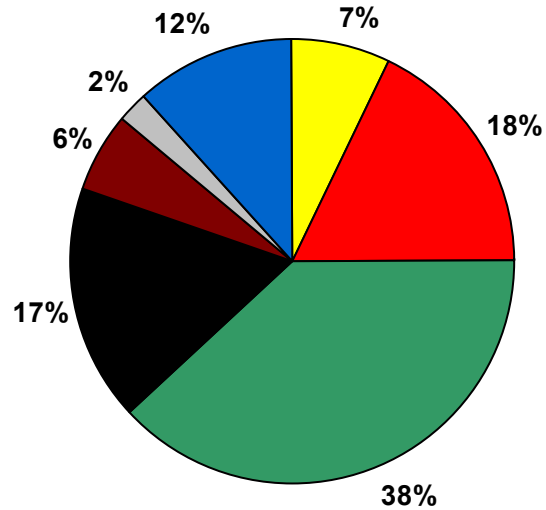
\*Excludes Rayleigh Extinction



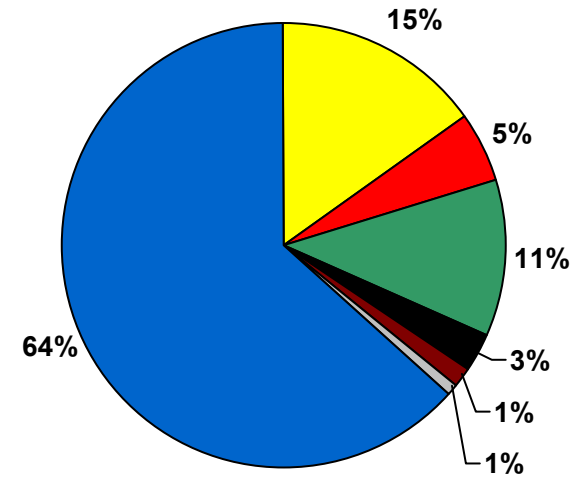
# MODEL RESULTS

## Dome Lands Wilderness Area, CA 2002 Reconstructed Extinction CMAQ Model Results (every day)

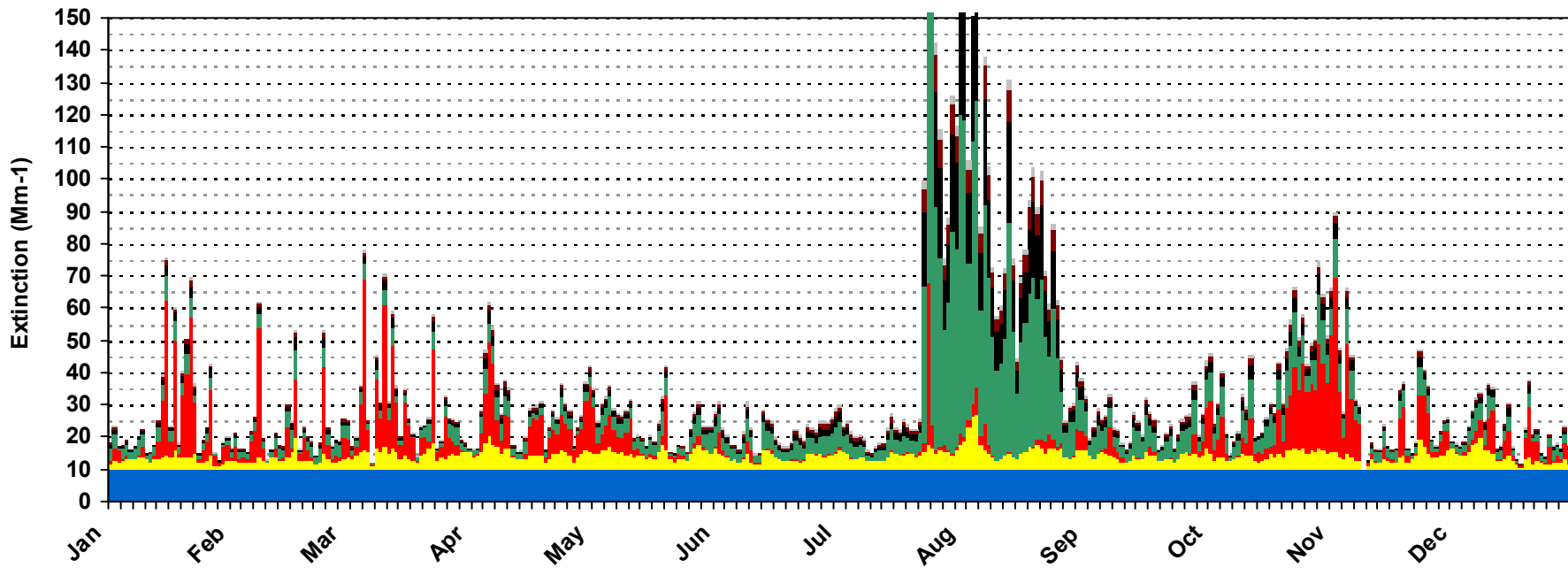
**20% Worst Visibility Days**  
Total Extinction = 85 Mm-1 (43 to 479 Mm-1)



**20% Best Visibility Days**  
Total Extinction = 16 Mm-1 (10 to 18 Mm-1)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh



## MODEL RESULTS

### Dome Lands Wilderness Area, CA 2002 Reconstructed Extinction CMAQ Model Results (every day)

<b>20% Worst Visibility Days</b>			
	<b>Average (Mm-1)</b>	<b>Minimum (Mm-1)</b>	<b>Maximum (Mm-1)</b>
<b>Total Extinction:</b>	84.7 (21.4 dv)	42.6 (14.5 dv)	479.2 (38.7 dv)
<b>Aerosol Extinction*:</b>	74.7	32.6	469.2
	<b>Average (Mm-1)</b>	<b>% of Tot. Extinction</b>	<b>% of Aer. Extinction</b>
<b>Ammonium Sulfate:</b>	6.1	7%	8%
<b>Ammonium Nitrate:</b>	15.1	18%	20%
<b>Organic Material:</b>	32.3	38%	43%
<b>Elemental Carbon:</b>	14.5	17%	19%
<b>Soil:</b>	4.9	6%	7%
<b>Coarse Material:</b>	1.8	2%	2%
<b>Rayleigh:</b>	10.0	12%	N/A
<b>20% Best Visibility Days</b>			
	<b>Average (Mm-1)</b>	<b>Minimum (Mm-1)</b>	<b>Maximum (Mm-1)</b>
<b>Total Extinction:</b>	15.8 (4.6 dv)	10.0 (0.0 dv)	17.8 (5.7 dv)
<b>Aerosol Extinction*:</b>	5.8	0.0	7.8
	<b>Average (Mm-1)</b>	<b>% of Tot. Extinction</b>	<b>% of Aer. Extinction</b>
<b>Ammonium Sulfate:</b>	2.4	15%	41%
<b>Ammonium Nitrate:</b>	0.8	5%	13%
<b>Organic Material:</b>	1.8	11%	31%
<b>Elemental Carbon:</b>	0.5	3%	8%
<b>Soil:</b>	0.2	1%	3%
<b>Coarse Material:</b>	0.1	1%	2%
<b>Rayleigh:</b>	10.0	63%	N/A

\*Excludes Rayleigh Extinction